

HYBRID SLEEVE MATERIAL AND STRUCTURE

ABSTRACT OF THE DISCLOSURE

A stent delivery system comprising a catheter including a stent mounting
5 region. A stent disposed about the stent mounting region of the catheter, the stent having
a distal end and a proximal end, the stent further having an unexpanded state and an
expanded state. At least one stent retaining sleeve having a first end overlying an end of
the stent when the stent is in the unexpanded state, a second end engaged to at least a
portion of the catheter adjacent to the stent mounting region. The outside surface of the
10 stent retaining sleeve being composed of a first material, at least a portion of the first end
of the inside surface being composed of a second material. The first material having a
first predetermined hardness, the second material having a second predetermined
hardness, the second predetermined hardness having a higher durometer value than the
first predetermined hardness.

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